

Rabbit anti-Human 5 Lipoxygenase Polyclonal Antibody | anti-ALOX5 antibody

Anti-5 Lipoxygenase antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45187	Rabbit	Human	Immunohistochemistry, Western Blot

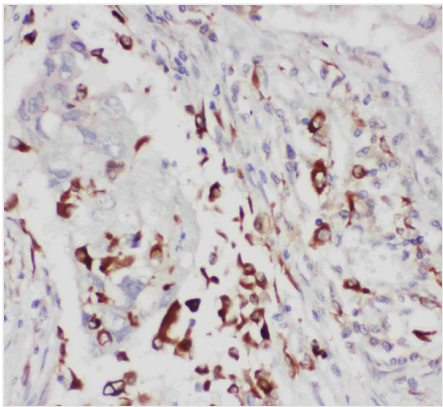
PRODUCT SYNONYMS

5 Lipoxygenase; Polyclonal Antibody; Anti-5 Lipoxygenase antibody; Arachidonate 5-lipoxygenase(5-LO/5-lipoxygenase); arachidonate 5-lipoxygenase; 5 LO antibody; 5 LOX antibody; 5-lipoxygenase antibody; 5-LO antibody; 5-LOX antibody; 5LOX antibody; 5LPG antibody; ALOX 5 antibody; Alox5 antibody; Arachidonate 5 lipoxygenase antibody; Arachidonate 5-lipoxygenase antibody; arachidonic 5-lipoxygenase alpha-10 isoform antibody; arachidonic 5-lipoxygenase delta-10-13 isoform antibody; arachidonic 5-lipoxygenase delta-13 isoform antibody; arachidonic 5-lipoxygenase delta-p10 isoform antibody; Arachidonic acid 5 lipoxygenase antibody; Leukotriene A4 synthase antibody; LOG 5 antibody; LOG5 antibody; LOX5_HUMAN antibody; MGC163204 antibody; anti-ALOX5 antibody

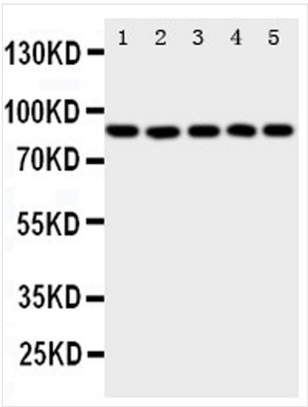
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	674
Applicable Applications for anti-ALOX5 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human 5 Lipoxygenase (650-667aa AERNKKKQLPYYYLSPDR), different from the related rat and mouse sequences by two amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti-ALOX5 antibody, AAA45187, IHC(P)IHC(P): Human Lung Cancer Tissue



WB (Western Blot)
Anti-ALOX5 antibody, AAA45187, Western blottingAll lanes: Anti ALOX5 (AAA45187) at 0.5ug/mlLane 1: SW620 Whole Cell Lysate at 40ugLane 2: JURKAT Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: A549 Whole Cell Lysate at 40ugLane 5: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 78KDObserved bind size: 78KD

ADDITIONAL INFORMATION

Related Product Information for anti-ALOX5 antibody

Description: Rabbit IgG polyclonal antibody for Arachidonate 5-lipoxygenase(ALOX5) detection. Tested with WB, IHC-P in Human.

Background: ALOX5(ARACHIDONATE 5-LIPOXYGENASE), also known as LOG5 or 5-LO(5-LIPOXYGENASE), is an enzyme that in humans is encoded by the ALOX5 gene. ALOX5 is a member of the lipoxygenase family of enzymes which also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases. The enzyme 5-lipoxygenase catalyzes 2 reactions in the formation of leukotrienes. The ALOX5 gene is mapped to chromosome 10q11.21 based on an alignment of the ALOX5 sequence with the genomic sequence. Human 5-LO contains 3 nuclear localization sequences(NLSS) and a phosphorylation site involved in nuclear localization. Compared with age-matched 5-LO competent mice, the 5-LO knockout mice developed less right heart hypertrophy. Pharmacologic inhibition or ALOX5 gene disruption resulted in a significant decrease of beta-amyloid production and gamma-secretase levels. ALOX5 activity is short-lived, apparently in part because of an intrinsic instability of the enzyme.

NCBI AND UNIPROT INFORMATION

NCBI GI #	126407
NCBI GeneID	240
UniProt Accession #	P09917; Q5JQ14; B7ZLS0; E5FPY5; E5FPY7; E5FPY8
Molecular Weight	56,291 Da
NCBI Official Full Name	Arachidonate 5-lipoxygenase
NCBI Official Synonym Full Names	arachidonate 5-lipoxygenase
NCBI Official Symbol	ALOX5
NCBI Official Synonym Symbols	5-LO; 5LPG; LOG5; 5-LOX
NCBI Protein Information	arachidonate 5-lipoxygenase; LOX-5; leukotriene A4 synthase; arachidonic acid 5-lipoxygenase; arachidonic 5-lipoxygenase alpha-10 isoform; arachidonic 5-lipoxygenase delta-13 isoform; arachidonic 5-lipoxygenase delta-p10 isoform; arachidonic 5-lipoxygenase delta-10-13 isoform
UniProt Protein Name	Arachidonate 5-lipoxygenase
UniProt Gene Name	ALOX5
UniProt Synonym Gene Names	LOG5; 5-LO; 5-lipoxygenase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/5-lipoxygenase-antibody-immunohistochemistry-western-blot-elisa/45187>